

FIG.4

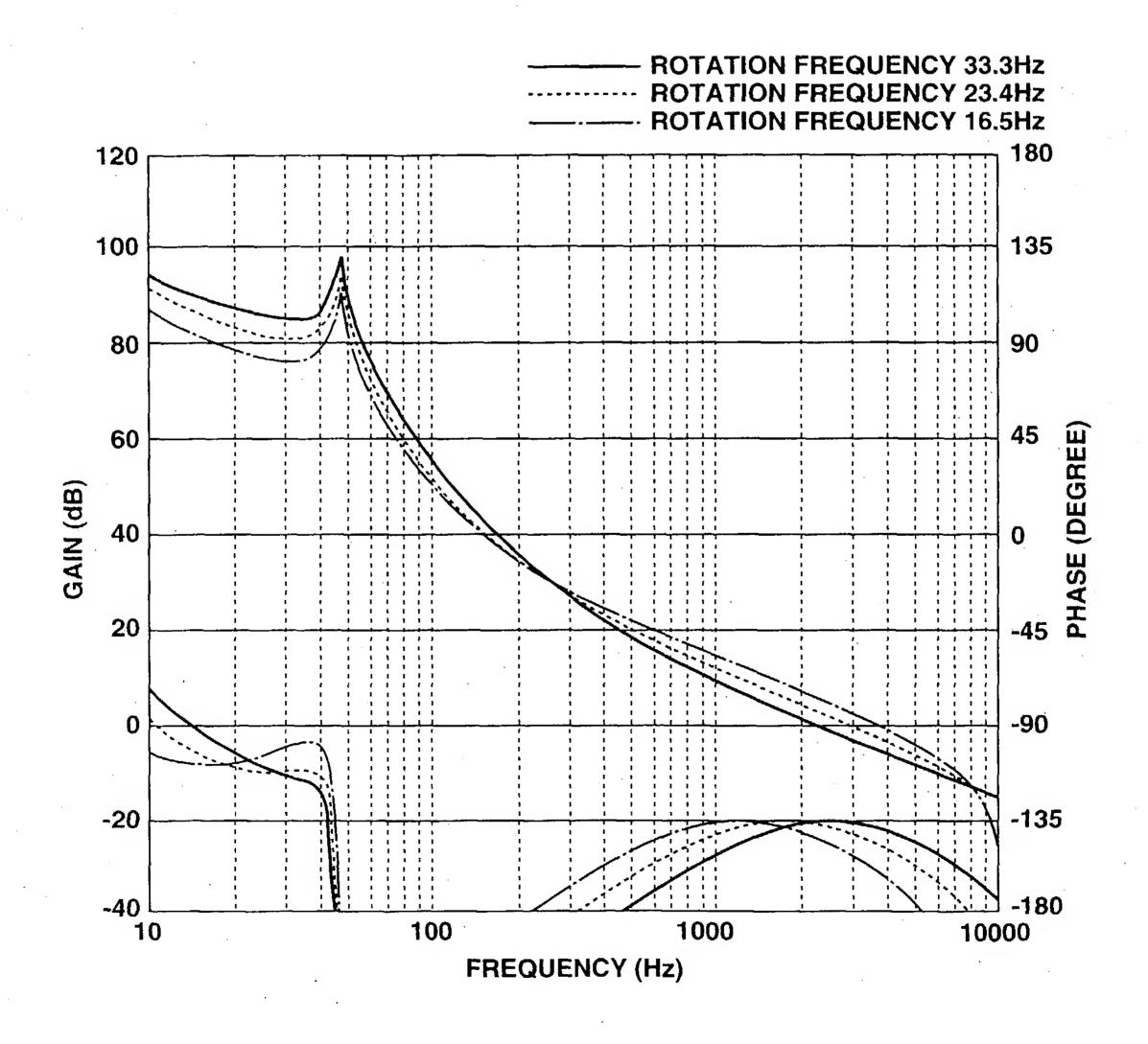
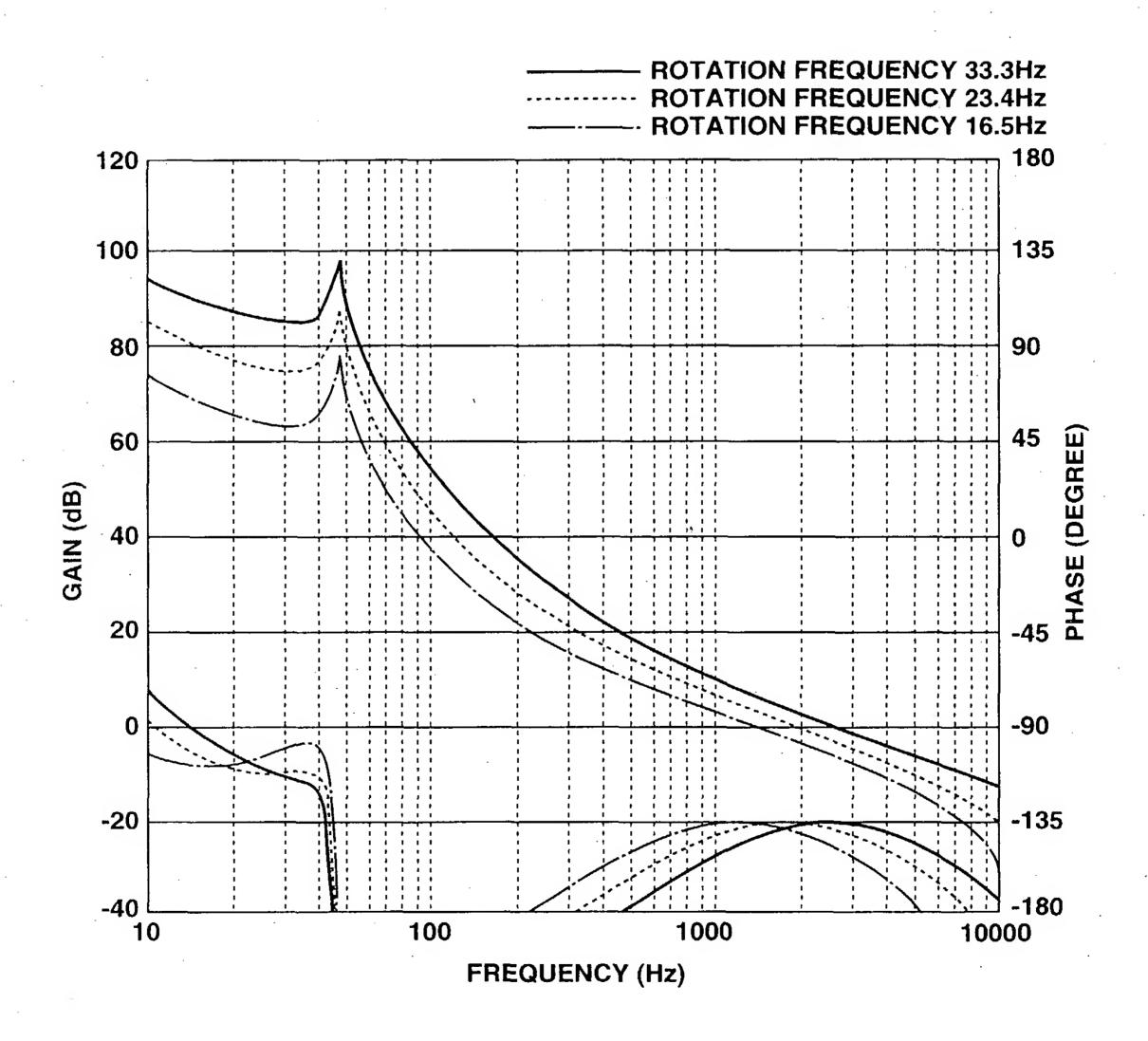


FIG.5



TRACKING GAIN CIRCUIT FOCUS GAIN CIRCUIT TRACKING-PHASE COMPENSATION CIRCUIT FOCUS-PHASE COMPENSATION CIRCUIT Ó TRACKING-ACTUATOR DRIVER 13 FOCUS-ACTUATOR DRIVER $\dot{\phi}$ TRACKING-ERROR GENERATION CIRCUIT PRIOR AR FOCUS-ERROR GENERATION CIRCUIT Ó FIG.6 4 DETECTION CIRCUIT -15 SPINDLE 18 16 CONTROLLER SPINDLE CONTROL CIRCUIT SPINDLE DRIVER

0/0

FIG.7
PRIOR ART

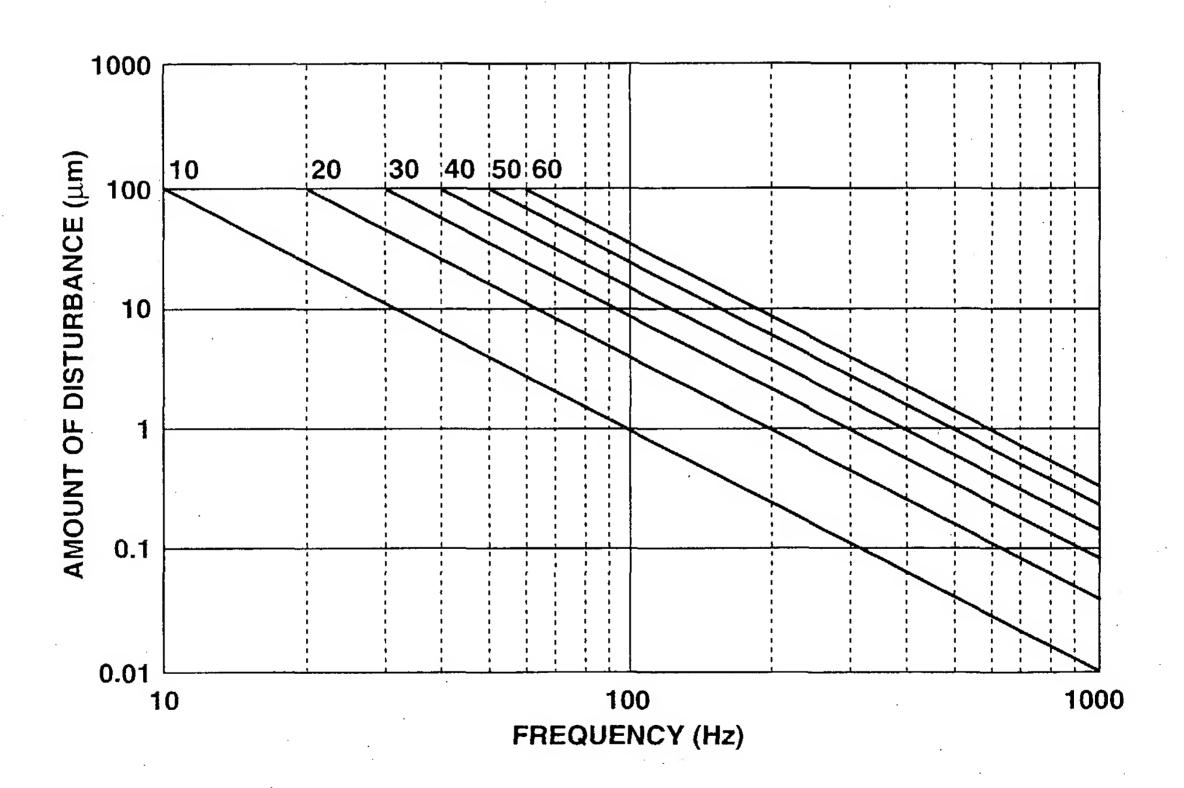


FIG.8 PRIOR ART

